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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00

Complete if Known

Application Number 10/821,522
Filing Date April 9, 2004
First Named Inventor Brian Agnew
Examiner Name
Art Unit
Attorney Docket No.

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number 13-3900

Deposit Account Name Molecular Probes, Inc.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	180.00
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00

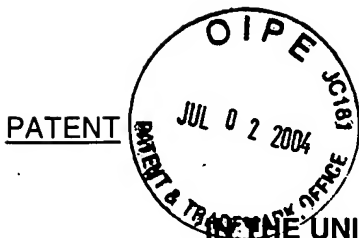
SUBMITTED BY

Name (Print/Type)	Koren J. Anderson	Registration No. (Attorney/Agent)	51,061	Telephone	541-335-0203
Signature	Koren J. Anderson	Date	6/29-04		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Agnew *et al.*

Serial No.: 10/821,522

Filed: April 9, 2004

For: **Compositions and Methods for
Detection and Isolation of
Phosphorylated Molecules**

)
)
) Examiner: Not Yet Known

)
) Group Art Unit: 1645

) **INFORMATION DISCLOSURE**
) **STATEMENT**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97(b), the Information Disclosure Statement being transmitted herewith is being filed before the mailing date of the first Office Action on the merits and within three months from filing of the above-identified application.

The enclosed references may be material to the examination of the above-identified application. Applicants, respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the enclosed substituted PTO-1449 form in accordance with MPEP §609.

This Information Disclosure Statement pursuant to 37 CFR 1.97 is not to be construed as a representation that: (1) a search has been made or (2) the above information constitutes prior art to the subject invention. Accordingly, it is requested that the Examiner consider the enclosed references.

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL OFFICE ON June 29, 2004 AS FIRST CLASS MAIL IN TWO BOXES ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX 1450 ALEXANDRIA, VA 22313-1450.
By Michael A. Seibert

Agnew, *et al.*
10/821,522

Respectfully submitted,

Date: June 29, 2004

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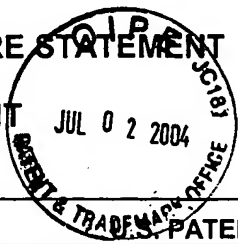
MEMORANDUM

Date: June 29, 2004
From: Michael A. Sennett
To: Commissioner for Patents
Organization: United States Patent & Trademark Office
Subject: 10/821,522 Information Disclosure Statement

COMMENTS:

Dear Sir

Please note the attached documents are copies of the original documents filed as an information disclosure statement. These copies accompany the second box of references simply for application identification.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Docket: Unassigned		Ser: 10/821,522	
				Applicant: Agnew, et al.			
				Filed: 9 April 2004		Group: Unknown	
PATENT DOCUMENTS							
Init.	Cite No.	Number	Date	Name	Class	Sub	Filed
	A1	10/703,816	11-07-03	Agnew et al.			
	A2	2004/0038306A1	05-02-03	Agnew et al.			
	A3	60/377,733	05-03-02	Agnew et al.			
	A4	60/393,059	06-28-02	Agnew et al.			
	A5	60/407,255	08-30-02	Agnew et al.			
	A6	60/440,252	01-14-03	Agnew et al.			
	A7	5,512,486	04-30-96	Giese et al.			
	A8	4,603,209	07-29-86	Tsien et al.			
	A9	5,049,673	09-17-91	Tsien et al.			
	A10	4,849,362	07-18-89	DeMarinis et al.			
	A11	5,773,227	06-30-98	Kuhn et al.			
	A12	5,453,517	09-26-95	Kuhn et al.			
	A13	5,516,911	05-14-96	London et al.			
	A14	5,501,980	03-26-96	Katerinopoulos et al.			
	A15	6,162,931	12-19-00	Gee et al.			
	A16	5,459,276	10-17-95	Kuhn et al.			
	A17	6,316,267	11-13-01	Bhalgat et al			
	A18	2002/0077487A1	06-20-02	Leung et al.			
	A19	2002/0064794A1	05-30-02	Leung et al.			
	A20	6,403,807	06-11-02	Singh et al.			
	A21	6,348,599	02-19-02	Cummins et al.			
	A22	09/557,275	04-24-00	Haugland et al.			
	A23	5,486,616	01-23-96	Waggoner et al.			
	A24	5,268,486	12-07-93	Waggoner et al.			
	A25	5,569,587	10-29-96	Waggoner			
	A26	5,569,766	10-29-96	Waggoner et al.			
	A27	5,627,027	05-06-97	Waggoner			
	A28	6,048,982	04-11-00	Waggoner			
	A29	4,774,339	09-27-88	Haugland et al.			
	A30	5,187,288	02-16-93	Kang et al.			
	A31	5,248,782	09-28-93	Haugland et al.			
	A32	5,274,113	12-28-93	Kang et al.			
	A33	5,433,896	07-18-95	Kang, et al.			
	A34	6,130,101	10-10-00	Mao et al.			
	A35	6,229,055	05-08-01	Klaubert et al.			
	A36	6,339,392	06-04-02	Haugland et al.			
	A37	5,451,343	09-19-95	Neckers et al.			
	A38	6,221,606	04-24-01	Benson et al.			
	A39	6,358,684	03-19-02	Lee			
	A40	6,008,379	12-28-99	Benson et al.			
	A41	6,111,116	08-29-00	Benson et al.			
	A42	6,184,379	02-06-01	Josel et al.			
	A43	6,017,712	01-25-00	Lee et al.			
	A44	6,080,852	06-27-00	Lee et al.			
	A45	5,847,162	12-08-98	Lee et al.			
EXAMINER:				DATE:			
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through citation if not in conformance and not considered. Send copy.							

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Docket: Unassigned	Ser: 10/821,522
	Applicant: Agnew, et al.	
	Filed: 9 April 2004	Group: Unknown

U.S. PATENT DOCUMENTS

A46	2002/0059684A1	05-23-02	Diwu et al.			
A47	4,810,636	03-07-89	Corey			
A48	5,696,157	12-09-97	Wang et al.			
A49	5,830,912	11-03-98	Gee et al.			
A50	4,812,409	03-14-89	Babb et al.			
A51	5,242,805	09-07-93	Naleway et al.			
A52	5,227,487	07-13-93	Haugland et al.			
A53	5,442,045	08-15-95	Haugland et al.			
A54	5,798,276	08-25-98	Haugland et al.			
A55	5,846,737	12-08-98	Kang			
A56	4,945,171	07-31-90	Haugland et al.			
A57	4,384,042	05-17-83	Miike et al.			
A58	5,196,306	03-23-93	Bobrow et al.			
A59	5,583,001	12-10-96	Bobrow et al.			
A60	5,731,158	03-24-98	Bobrow et al.			
A61	5,316,906	05-31-94	Haugland et al.			
A62	5,443,986	08-22-95	Haugland et al.			
A63	5,208,148	05-04-93	Haugland et al.			
A64	5,362,628	11-08-94	Haugland et al.			
A65	5,576,424	11-19-96	Mao et al.			
A66	5,773,236	06-30-98	Diwu et al.			
A67	4,520,110	05-28-85	Stryer et al.			
A68	4,859,582	08-22-89	Stryer et al.			
A69	5,055,556	10-08-91	Stryer et al.			
A70	4,542,104	09-17-85	Stryer et al.			
A71	5,863,727	01-26-99	Lee et al.			
A72	6,372,445	04-16-02	Davis et al.			
A73	5,656,554	08-12-97	Desai et al.			
A74	5,714,327	02-03-98	Houthoff et al.			
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A76	6,579,718	06-17-03	Yue et al.			
A77	6,329,205 B1	12-11-01	Diwu et al.			
A78	10/005,050	12-03-01	Haugland et al.			
A79	2002/0137068A1	09-26-02	Haugland et al.			
A80	10/661,451	09-12-03	Diwu et al.			
A81	2002/0076727	06-20-02	Cardone et al.			
A82	2002/0106785	08-08-02	Jan et al.			
A83	2002/0055186	05-09-02	Barry et al.			
A84	6,403,368	06-11-02	Jan et al.			
A85	6,475,809	11-05-02	Wagner et al.			
A86	6,365,418	04-02-02	Wagner et al.			
A87	6,409,921	06-25-02	Muller et al.			
A88	5,595,915	01-21-97	Geysen			
A89	6,461,807	10-08-02	Friend et al.			
A90	6,399,299	06-04-02	Bobrow et al.			
A91	6,372,813	04-16-02	Johnson et al.			
A92	6,391,937	05-21-02	Beuhler et al.			

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	Applicant: Agnew, et al.	
	Filed: 9 April 2004	Group: Unknown

U.S. PATENT DOCUMENTS

	A93	6,387,631	05-14-02	Arnold et al.			
	A94	6,413,722	07-02-02	Arnold et al.			
	A95	6,207,397	03-27-01	Lynch et al.			
	A96	5,981,180	11-09-99	Chandler et al.			
	A97	6,268,222 B1	07-31-01	Chandler et al.			
	A98	6,413,420 B1	07-02-02	Foy et al.			
	A99	08/868,598	06-04-97	Sterman et al.			
	A100	2002/0117451	08-29-02	Foy et al.			
	A101	4,339,337	07-13-82	Tricot et al.			
	A102	5,834,121	11-10-98	Sucholeiki et al.			
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FOREIGN PATENT DOCUMENTS

Init.*	Cite No.	Number	Date	Country	Class	Sub		
	B1	WO 99/39210	08-05-99	WIPO				
	B2	WO 00/63701	10-26-00	WIPO				
	B3	WO 02/25288	06-20-02	WIPO				
	B4	WO 01/18545	03-15-01	WIPO				
	B5	WO 00/04380	01-27-00	WIPO				
	B6	WO 00/75167 A2	12-14-00	WIPO				
	B7	WO 01/96869 A1	12-20-01	WIPO				
	B8	EP 1 156 329 A2	11-21-01	EPO				
	B9	EP 1 215 501 A1	06-19-02	EPO				

NON PATENT LITERATURE DOCUMENTS

Init.*	Cite No.	Name of Author, Title of the Article, Title of the Item, Date, Volume-Issue Number, Page
	C1	Protein Phosphorylation: A Practical Approach. Edited by D. G. Hardie. The Practical Approach Series, Series Editors: D. Rickwood and B.D. Hames, IRL Press at Oxford University Press, Oxford, England, 1993, ISBN 0-19-963305.
	C2	Hunter, T., <i>Signaling--2000 and beyond</i> . Cell, 2000. 100 (1): p. 113-27.
	C3	Wilkins, M.R., et al., <i>Progress with proteome projects: why all proteins expressed by a genome should be identified and how to do it</i> . Biotechnol Genet Eng Rev, 1996. 13 : p. 19-50.
	C4	Nishizuka, Y., <i>Studies and perspectives of protein kinase C</i> . Science, 1986. 233 (4761): p. 305-12
	C5	Guy, G.R., R. Philip, and Y.H. Tan, <i>Analysis of cellular phosphoproteins by two-dimensional gel electrophoresis: applications for cell signaling in normal and cancer cells</i> . Electrophoresis, 1994. 15 (3-4): p. 417-40.
	C6	Yan, J.X., et al., <i>Protein phosphorylation: technologies for the identification of phosphoamino acids</i> . J Chromatogr A, 1998. 808 (1-2): p. 23-41.
	C7	Soskic, V., et al., <i>Functional proteomics analysis of signal transduction pathways of the platelet-derived growth factor beta receptor</i> . Biochemistry, 1999. 38 (6): p. 1757-64.

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DATE:

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Agnew, et al.	
		Filed: 9 April 2004	Group: Unknown
NON PATENT LITERATURE DOCUMENTS			
	C8	Watty, A., et al., <i>The in vitro and in vivo phosphotyrosine map of activated MuSK</i> . Proc Natl Acad Sci U S A, 2000. 97 (9): p. 4585-90.	
	C9	McLachlin, D.T. and B.T. Chait, <i>Analysis of phosphorylated proteins and peptides by mass spectrometry</i> . Curr Opin Chem Biol, 2001. 5 (5): p. 591-602.	
	C10	Green, M.R., J.V. Pastewka, and A.C. Peacock, <i>Differential staining of phosphoproteins on polyacrylamide gels with a cationic carbocyanine dye</i> . Anal Biochem, 1973. 56 (1): p. 43-51.	
	C11	Hegenauer, J., L. Ripley, and G. Nace, <i>Staining acidic phosphoproteins (phosvitin) in electrophoretic gels</i> . Anal Biochem, 1977. 78 (1): p. 308-11.	
	C12	Debruyne, I., <i>Staining of alkali-labile phosphoproteins and alkaline phosphatases on polyacrylamide gels</i> . Anal Biochem, 1983. 133 (1): p. 110-5.	
	C13	Kamiya, M. and T. Okuyama, <i>Staining acidic phosphoprotein in polyacrylamide gels with acridine orange</i> . Seikagaku, 1973. 45 (7): p. 327-35.	
	C14	Cutting, J.A. and T.F. Roth, <i>Staining of phospho-proteins on acrylamide gel electropherograms</i> . Anal Biochem, 1973. 54 (2): p. 386-94.	
	C15	Wang, P. and R.W. Giese, <i>Phosphate-specific fluorescence labeling of pepsin by BO-IMI</i> . Anal Biochem, 1995. 230 (2): p. 329-32.	
	C16	Goshe, M.B., et al., <i>Phosphoprotein isotope-coded affinity tag approach for isolating and quantitating phosphopeptides in proteome-wide analyses</i> . Anal Chem, 2001. 73 (11): p. 2578-86.	
	C17	Oda, Y., T. Nagasu, and B.T. Chait, <i>Enrichment analysis of phosphorylated proteins as a tool for probing the phosphoproteome</i> . Nat Biotechnol, 2001. 19 (4): p. 379-82.	
	C18	Zhou, H., J.D. Watts, and R. Aebersold, <i>A systematic approach to the analysis of protein phosphorylation</i> . Nat Biotechnol, 2001. 19 (4): p. 375-8.	
	C19	Adamczyk, M., J.C. Gebler, and J. Wu, <i>Selective analysis of phosphopeptides within a protein mixture by chemical modification, reversible biotinylation and mass spectrometry</i> . Rapid Commun Mass Spectrom, 2001. 15 (16): p. 1481-8.	
	C20	Resing, K.A. and N.G. Ahn, <i>Protein phosphorylation analysis by electrospray ionization-mass spectrometry</i> . Methods Enzymol, 1997. 283 : p. 29-44.	
	C21	Aebersold, R. and D.R. Goodlett, <i>Mass spectrometry in proteomics</i> . Chem Rev, 2001. 101 (2): p. 269-95.	
	C22	Affolter, M., et al., <i>Evaluation of two-dimensional phosphopeptide maps by electrospray ionization mass spectrometry of recovered peptides</i> . Anal Biochem, 1994. 223 (1): p. 74-81.	
EXAMINER:		DATE:	
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through citation if not in conformance and not considered. Send copy.			

Substitute for form 1449/PTO		Docket: Unassigned	Ser: 10/821,522
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Agnew, et al.	
		Filed: 9 April 2004	Group: Unknown
NON PATENT LITERATURE DOCUMENTS			
	C23	Liao, P.C., et al., <i>An approach to locate phosphorylation sites in a phosphoprotein: mass mapping by combining specific enzymatic degradation with matrix-assisted laser desorption/ionization mass spectrometry</i> . Anal Biochem, 1994. 219 (1): p. 9-20.	
	C24	Oda, Y., et al., <i>Accurate quantitation of protein expression and site-specific phosphorylation</i> . Proc Natl Acad Sci U S A, 1999. 96 (12): p. 6591-6.	
	C25	Posewitz, M.C. and P. Tempst, <i>Immobilized gallium(III) affinity chromatography of phosphopeptides</i> . Anal Chem, 1999. 71 (14): p. 2883-92.	
	C26	Neville, D.C., et al., <i>Evidence for phosphorylation of serine 753 in CFTR using a novel metal-ion affinity resin and matrix-assisted laser desorption mass spectrometry</i> . Protein Sci, 1997. 6 (11): p. 2436-45.	
	C27	Xhou, W., et al., <i>Detection and sequencing of phosphopeptides affinity bound to immobilized metal ion beads by matrix-assisted laser desorption/ionization mass spectrometry</i> . J Am Soc Mass Spectrom, 2000. 11 (4): p. 273-82.	
	C28	Haugland, R., HANDBOOK OF FLUORESCENT PROBES AND RESEARCH CHEMICALS (9 th edition, CD-ROM, September 2002).	
	C29	Furniss, B.S. et al. (eds.), VOGEL'S ENCYCLOPEDIA OF PRACTICAL ORGANIC CHEMISTRY 5 TH ED., Longman Scientific and Technical Ltd., Essex, 1991, pp. 809-816	
	C30	Heller, A, <i>Electrical Wiring of Redox Enzymes</i> . Acc. Chem. Res, 1990. 23 : 128-134.	
	C31	Selvin, P.R., <i>Fluorescence resonance energy transfer</i> . Methods Enzymol, 1995. 246 : p. 300-34.	
	C32	dos Remedios, C.G. and P.D. Moens, <i>Fluorescence resonance energy transfer spectroscopy is a reliable "ruler" for measuring structural changes in proteins. Dispelling the problem of the unknown orientation factor</i> . J Struct Biol, 1995. 115 (2): p. 175-85.	
	C33	Wu, P. and L. Brand, <i>Resonance energy transfer: methods and applications</i> . Anal Biochem, 1994. 218 (1): p. 1-13	
	C34	Matayoshi, E.D., et al., <i>Novel fluorogenic substrates for assaying retroviral proteases by resonance energy transfer</i> . Science, 1990. 247 (4945): p. 954-8.	
	C35	Morrison, L.E., <i>Detection of Energy Transfer and Fluorescence Quenching</i> , in <u>Nonisotopic DNA Probe Techniques</u> , L. Kricka, ed. Academic Press, San Diego, (1992): pp. 311-352	
	C36	Tyagi, S., D.P. Bratu, and F.R. Kramer, <i>Multicolor molecular beacons for allele discrimination</i> . Nat Biotechnol, 1998. 16 (1): p. 49-53.	
	C37	Tyagi, S. and F.R. Kramer, <i>Molecular beacons: probes that fluoresce upon hybridization</i> . Nat Biotechnol, 1996. 14 (3): p. 303-8.	
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